

We claim:

1. An oculomotor testing device comprising:

a plurality of board panels, each board panel comprising a plurality of switches electrically connected to a computing device, each of said switches being in a first position in an inactivated state;

a pad associated with each of said board panels, said pad overlying said switches whereby when weight is applied to said pad, at least one of said switches shifts to a second position.

2. The device of claim 1, said first position being selected from the group consisting of open and closed.

3. The device of claim 2, said second position being open when said first position is closed and closed when said first position is open.

4. The device of claim 1, said second position sending input to said computing device.

5. The device of claim 1, further including a stimulus exhibitor.

6. The device of claim 5, said stimulus generator being a monitor.

7. The device of claim 5, said stimulus generator displaying colors.

8. The device of claim 1, said plurality of board panels including connectors.

9. The device of claim 8, said connectors comprising cooperative dovetail projections and recesses.

10. The device of claim 1, said board panels further comprising a perimeter frame.

11. The device of claim 10, said frame enclosing said switches.

12. The device of claim 10, said frame including an egress for said electrical connection to said computing device.

13. The device of claim 10, said frame having a top cover and a bottom cover.

14. The device of claim 13, said top cover and said bottom cover comprising aluminum.

15. The device of claim 13, said top cover presenting a cut-out portion, at least a portion of said pad adapted to fit in said cut-out portion.

16. The device of claim 10, said frame including a shoulder, said pad being spaced from said shoulder when said switch is in said first position.

17. The device of claim 16, said pad being adjacent said shoulder when said switch is in said second position.

18. The device of claim 1, said pad including a non-skid surface.

19. The device of claim 1, said plurality of switches being connected in parallel.

20. The device of claim 1, at least one said switch returning to said first position when the weight is removed from said pad.

21. The device of claim 20, said switch sending data to said computing device when said switch returns to said first position.

22. The device of claim 1, said computing device adapted to measure a response parameter selected from the group consisting of reaction time, movement time, and combinations thereof.

23. The device of claim 1 further including a detachable upright frame, said frame including a base and a handle portion.

24. The device of claim 23, said frame comprising a pair of inverted U-shaped members interconnected with a crossbar.

25. A method of measuring a response parameter of an individual, said parameter being selected from the group consisting of reaction time, movement time, and combinations thereof, said method comprising the steps of:

- a) providing a visual stimulus;
- b) causing a locomotor response to said stimulus, said locomotor response generating data, said data representative of at least one of said parameters; and
- c) collecting said data in order to measure said parameter.

26. The method of claim 25, further including the step of repeating steps a-c a first plurality of times.

27. The method of claim 26, said plurality being at least 10.

28. The method of claim 27, said plurality being at least 20.

29. The method of claim 28, said method being between about 25-50.

30. The method of claim 26, further including the step of processing said data to give a total elapsed time of at least one of said parameters.

5 31. The method of claim 25, said locomotor response consisting of the individual moving from a first position to a second position.

32. The method of claim 31, said locomotor response further consisting of the individual moving from said second position back to said first position.

10 33. The method of claim 25, further including the step of comparing said collected data with another set of collected data, said other set of collected data being selected from the group consisting of a known standard, a specific population of individuals, a previously collected set of data from the individual, and a previously collected set of data from another individual.

15 34. The method of claim 25, further comprising the step of using said data for a type of testing selected from the group consisting of athletic testing, geriatric evaluation, physical therapy progression, locomotor rehabilitation, drug impairment evaluation, vestibular testing for inner ear disorders, multiple sclerosis progression, and  
20 child locomotor skills.

35. The method of claim 26, including the step of repeating steps a-c a second plurality of times after said first plurality of times.

25 36. The method of claim 35, including the step of having a first rest period between said first and second plurality of times.

37. The method of claim 36, said first rest period lasting at least 1 minute.

30 38. The method of claim 37, said first rest period lasting between 1- 5 minutes.

39. The method of claim 35, including the step of repeating steps a-c a third plurality of times after said second plurality of times.

5 40. The method of claim 39, including the step of having a second rest period between said second and said third plurality of times.

41. The method of claim 40, said second rest period lasting at least 1 minute.

10 42. The method of claim 41, said second rest period lasting between 1-5 minutes.

15 43. The method of claim 25, wherein the visual stimulus presents the individual with a choice between at least two locomotor responses with a single locomotor response being correct and the remaining locomotor responses being incorrect.

44. The method of claim 43, step c further including the step of collecting data regarding correct and incorrect responses.

20 45. The method of claim 44, said data including the frequency of a specific incorrect response.

25 46. An oculomotor testing apparatus comprising:  
a stimulus exhibitor;  
a touch screen; and  
a computing device adapted for communication with said stimulus exhibitor and said touch screen.

30 47. An apparatus comprising:  
a computing device;  
a visual feedback exhibitor in communication with said computing device; and

a force receiving assembly in communication with said computing device, said  
force receiving assembly including a force-receiving member  
operatively connected to a force measuring assembly, wherein force  
exerted on said force receiving member is measured by said force  
measuring assembly, transmitted to said computing device, and visually  
represented on said visual feedback exhibitor.

48. A stabilizer apparatus comprising:

a pair of U-shaped frame members, each member comprising a pair of legs  
interconnected at one end by a handle portion, said other end of each of  
said legs terminating in a base, each said member also including a  
reinforcing bar spanning between said pair of legs on each said member,  
said reinforcing bar presenting an arched shape; and

a crossbar interconnecting one leg of each said member, said cross bar  
presenting an arched shape.